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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750,983	01/02/2004	Jeong-Min Choi	4591-366	5470
20575	7590 11/17/2006		EXAM	INER
MARGER JOHNSON & MCCOLLOM, P.C.			ERDEM, FAZLI	
	210 SW MORRISON STREET, SUITE 400 PORTLAND, OR 97204		ART UNIT	PAPER NUMBER
10112	, 011 7.20		2826	

DATE MAILED: 11/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/750,983	CHOI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Fazli Erdem	2826				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on 01 September 2006.						
<u> </u>						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
						Disposition of Claims
4)⊠ Claim(s) <u>1-15</u> is/are pending in the application.						
4a) Of the above claim(s) <u>5-12</u> is/are withdrawn from consideration.						
5) Claim(s) 13-15 is/are allowed.						
6)⊠ Claim(s) 1-4 is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) M Notice of References Cited (RTO 200)						
) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other:						

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DETAILED ACTION

Allowable Subject Matter

1. Claims 13-15 allowed

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-4 rejected under 35 U.S.C. 103(a) as being unpatentable over Sun (5,899,742) in view of Hokazono (6,573,583) further in view of Kim (2003/0230811)

Regarding Claims 1-4 Sun discloses a manufacturing method for self-aligned local interconnects and contact simultaneously where in Figs. 3F and 3H, layer 31 is isolation region, formed in semiconductor substrate 30, gates 34a and 34b are formed over the substrate, and source/drain regions 36 are formed at both sides of the gates, layer 44 is protective insulating layer formed on the isolation region 31, layers 42a, 42b, and 42c are silicide layers and 37a, 37e, 37c and 37d are the sidewall spacers. Sun fails to disclose the alignment structure of the silicide layer with respect to insulation layer and spacer and the blocking insulating layer being apart from the sidewall spacer. However, Hokazono discloses a semiconductor device and its manufacturing method where in where in Fig. 4, silicon layer 10 is located between the sidewalls 9 and blocking insulation layer 18. Furthermore, in claims section (claim 2) it is also disclosed that the silicon layer 10 can be a silicide layer. Therefore, silicide layer 10 is aligned between the sidewall spacer and the blocking insulation layer and it is located over the source/drain

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region. Furthermore, Kim discloses a semiconductor device where in Fig.6, blocking insulating layer 140 is being apart from the sidewall spacer.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required alignment structure of the silicide layer and blocking insulating layer being apart from the sidewall spacer in Sun as taught by Hokazono and Kim respective, in order to have a semiconductor structure with higher reliability.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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FE November 12, 2006